

ABSTRACT

A system is provided that monitors at the wellsite injection of additives into formation fluids recovered through wellbores and controls the supply of such additives from remote locations. A pump supplies the selected additive from a source at the wellsite into the wellbore via a suitable supply line. A flow meter in the supply line measures the flow rate of the additive through the supply line and generates signals representative of the flow rate. A controller at the wellsite determines the flow rate from the flow meter signals and in response thereto controls the pump to control the flow rate of the additive to the well. The wellsite controller interfaces with a suitable two-way communication link and transmits signals and data representative of the flow rate and other parameters to a second remote controller. The remote controller transmits command signals to the wellsite controller representative of any change desired for the flow rate. The wellsite controller is microprocessor based and may be programmed at the wellsite or by the remote controller to adjust the flow rate. The system of the present invention may be configured for multiple wells, with each well having a separate wellsite controller or a common wellsite controller.